

Provident

A leading Energy Services
Company specializing in multi-
residential facilities.

About Us

Incorporated in 1985, Provident is a leading Energy Services Company (ESCO) in the Greater Toronto Area. Provident specializes in the multi-residential market with an emphasis on high rise condominiums.

Provident is committed to generating substantial energy savings through energy management systems & monitoring, individual metering & billing, energy consulting and energy retrofits. Turnkey solutions include lighting, variable frequency drives, boiler retrofits, carbon monoxide monitoring and control and much more.

The Provident Team includes engineers, certified energy managers, and building systems engineering technologists among other disciplines. Provident supports our clients with years of experience and state-of-the-art expertise.

Energy Management

- Save 10-15% through the use of automation.

Energy Retrofits

- For existing buildings we offer a wide range of products and services. Call today for a free energy assessment!

Metering Services

- For new and existing buildings we offer complete metering and billing solutions. Ensure that homeowners are a part of your energy strategy.

About Metering

Metering Provident is a leader in multi-residential metering solutions. For existing buildings, we offer a number of options for in-suite metering and billing. Working with metering systems from a variety of manufacturers, we can provide an end-to-end turnkey offering that includes installation, certification, maintenance, data collection, funds transfer, invoice generation, collections and an outstanding customer service team available to answer any questions or concerns that suite owners may have.

We can easily transfer existing billing services contracts to Provident with no interruption of service, or more importantly, cash flow.

For new construction, Provident offers even more enhanced metering solutions including thermal, gas, electricity and water metering. Our engineering department can design a metering system that will off-load almost all in-suite energy costs from common area elements, resulting in significantly lower common area expense.

For our customers, we provide a wide range of payment options, including internet and telephone banking options, pre-authorized funds transfer and cheques.

All of this is available at a cost that is among the lowest in the industry.

Thermal, Gas, Electricity and Water

Thermal

For suites that receive heating from a central plant, there is no better way to properly allocate costs than with the use of a

thermal meter. These meters measure the temperature of the heating or cooling medium entering and leaving the equipment within your suite and also measure the flow of that medium. By determining the volume of medium (flow) and the temperature differential (between the entering and leaving medium) the amount of energy used can be determined. Given the cost per unit of energy delivered from the central plant, a bill can be generated.

Gas

Like electricity, natural gas can be sub-metered, and with a known cost per unit of volume, bills can be generated for an individual suite. Provident can also provide metering for mixed use facilities, where retail units may be served by the main gas meter for an entire facility.

Electricity

Like gas sub-metering, electricity can be sub-metered for proper cost allocation. Again, Provident can offer not only in-suite metering in multi-residential facilities, but also for mixed-use units within that facility. For detailed information on electrical sub-metering, refer to our sub-metering page.

Water

Water sub-metering may be an option. Certainly in new construction, with new piping technology (Kitec™, for example) where there is a single entry point for all water supplied to a suite, meters can be installed to properly allocate costs.

Energy Management

Traditional electromechanical controls are designed to achieve limited goals. Today's high energy costs and complex HVAC systems demand better control and monitoring.

Provident supplies and installs state-of-the-art energy management and monitoring systems from major manufacturers like Siemens™. From complete hands-off remotely managed systems to remotely supported systems with local interfaces, property managers, owners and residents can benefit from a multitude of system features.

Our monitoring service includes a number of measures designed to maximize your return on investment. Energy reporting, 24/365 critical systems monitoring, comprehensive and preventative maintenance are just some of the features included with our monitoring service.

System Overview

As with virtually any business today, the introduction of computers and electronics have been used in building operations to achieve efficiency and comfort.

The fundamental advantage of Energy Management Systems is the ability to integrate different pieces of equipment across a facility. For example, when operating equipment, a common outdoor air reference can be used. Where a fan system would not otherwise reference the outdoor air temperature, these systems now can. So, when a fan would otherwise operate all pumps and valves at the same time, we can now turn these sub-components off when outdoor air conditions allow. Such a strategy would be referred to as free heating or cooling (as the case may be). Another example is in the operation of primary boilers. Normally, where these boilers would be set to operate to provide sufficient heating for any given load in a building, these loads can be compared and a set-point calculated to provide only that heat needed to meet the highest load at the time.

Our clients can harness the power of this technology to:

- Schedule Equipment
- Optimize Operation
- Trend Temperatures & Statuses
- Monitor Equipment in Real-Time
- Achieve Savings through Customized Programming

Another feature that Provident insists upon for our Energy Management Systems, is the use of feedbacks to determine the state of controlled equipment. It is one thing to have a computer turn things on and off, it is quite another to be able to verify that the equipment actually is going on and off. For this reason, Provident installs not only outputs to pieces of equipment, but has feedback to confirm proper equipment operation.

Automation support

Alarms

The key to customer satisfaction is ensuring that no resident ever wakes up to a cold shower, or a lack of heat or cooling in their suite. This is the whole basis for monitoring the building plant. In these situations, Provident will take whatever steps are necessary to bring critical systems back online as quickly as possible. Our first step is to contact the building immediately, regardless of the time of day. Provident will even take measures to bring equipment on-line using our own resources should Provident or your staff be unable to contact your contractor of choice.

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